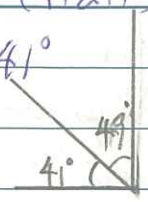
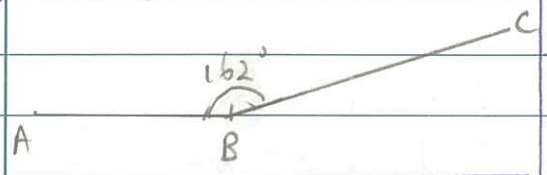
Review Set 2A (H&H) (2/2)

1a) complement of 41°
= 90° − 41°
= 49°



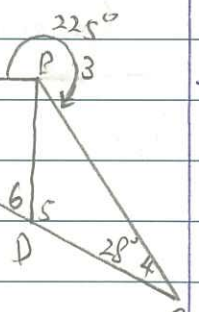
b) One revolution
= 360°

c) ∠ABC = 162°



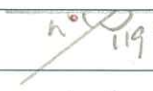
2a) (i) A, P, 1, 2, 3, (150°), 225°

(i) ∠BDA = 6
(ii) ∠DCB = 4
(iii) ∠BAC = 2



b (i) 3 is reflex angle (225°)
(ii) 1 is obtuse angle (150°)
(iii) 4 is acute angle (28°)

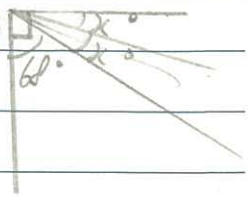
3a)



n + 119 = 180 (∠s on st. line)
n = 180 − 119
n = 61 (*note: there should not be unit "°")

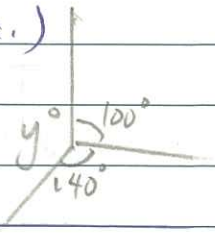
n only represent number, since ° have been given in the drawing)

3b) x + x + 68 = 90 (comp. ∠s)



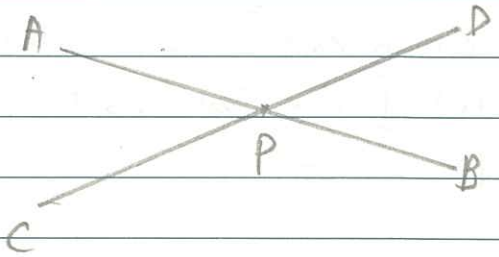
2x = 90 − 68
2x = 22
x = 11

3c) y + 100 + 140 = 360 (∠s at a pt.)
y = 360 − 240
y = 120



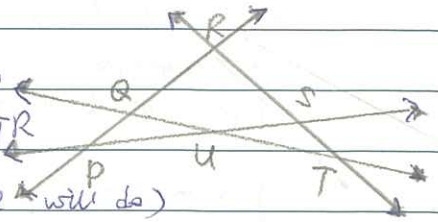
4 at least 2 points are needed to determine the position of a line

5.



[AB] and [CD] intersect at P

6a) RS is the same line as RT/SR/ST/TS/TR (any 2 of the above will do)

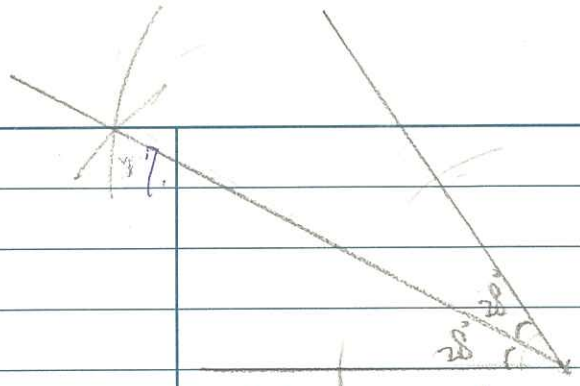


b) any two of
PQ, PU, PR, PS, QR, QS, QP, QU, RP, SP, RQ, SU

c) (i) PQR are colliner (on a st. line)
(ii) PQ and RS intersect at R.

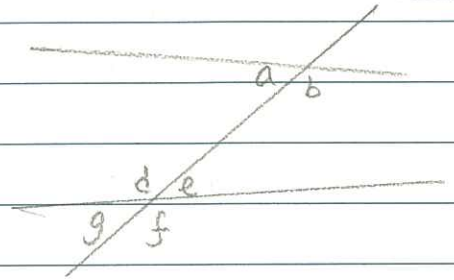
H&H Review Set 2A (continue)

7.



* don't erase the construction lines

8.



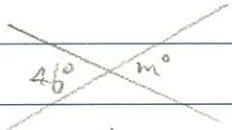
a) a and g are corresponding

b) a and e are alternate

c) b and e are co-interior

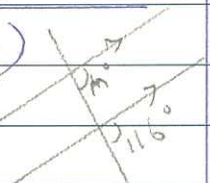
d) d is vertically opposite to f

9 a)



$m = 46$ (vert. opp. $\angle$s)
(vertically opposite angles)

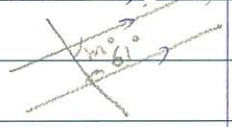
b) $m = 116$ (corr. $\angle$s, $//$s)
(corresponding angles of parallel lines)



c) $m + 61 = 180$ (co-interior $\angle$s, $//$s)

$m = 180 - 61$

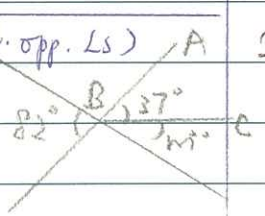
$m = 119$



d) $m + 37 = 82$ (vert. opp. $\angle$s)

$m = 82 - 37$

$m = 45$

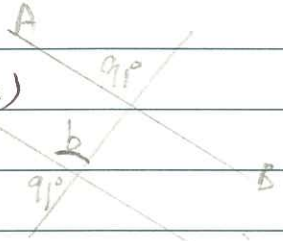


10. a) $71° \neq 72°$

AB is not parallel to CD because their alternate angles are not the same.

b) $b + 91° = 180°$ ($\angle$s on str. line)

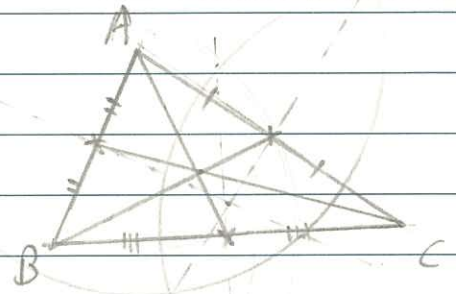
$b = 89°$



$\therefore b \neq 91°$

$\therefore$ AB is not parallel to CD (corresponding angles are not equal)

11. a)



b) The three medians are coincide / the three medians meet at the same point

12. $15° = 30 \div 2$

$30° = 60 \div 2$

I will start drawing a equilateral triangle to get 60° and the bisect the angle 2 time.